

Hvat vita vit (ikki) um hjartaklovning – smittuleið, virusgenom & viðgerðarfelli

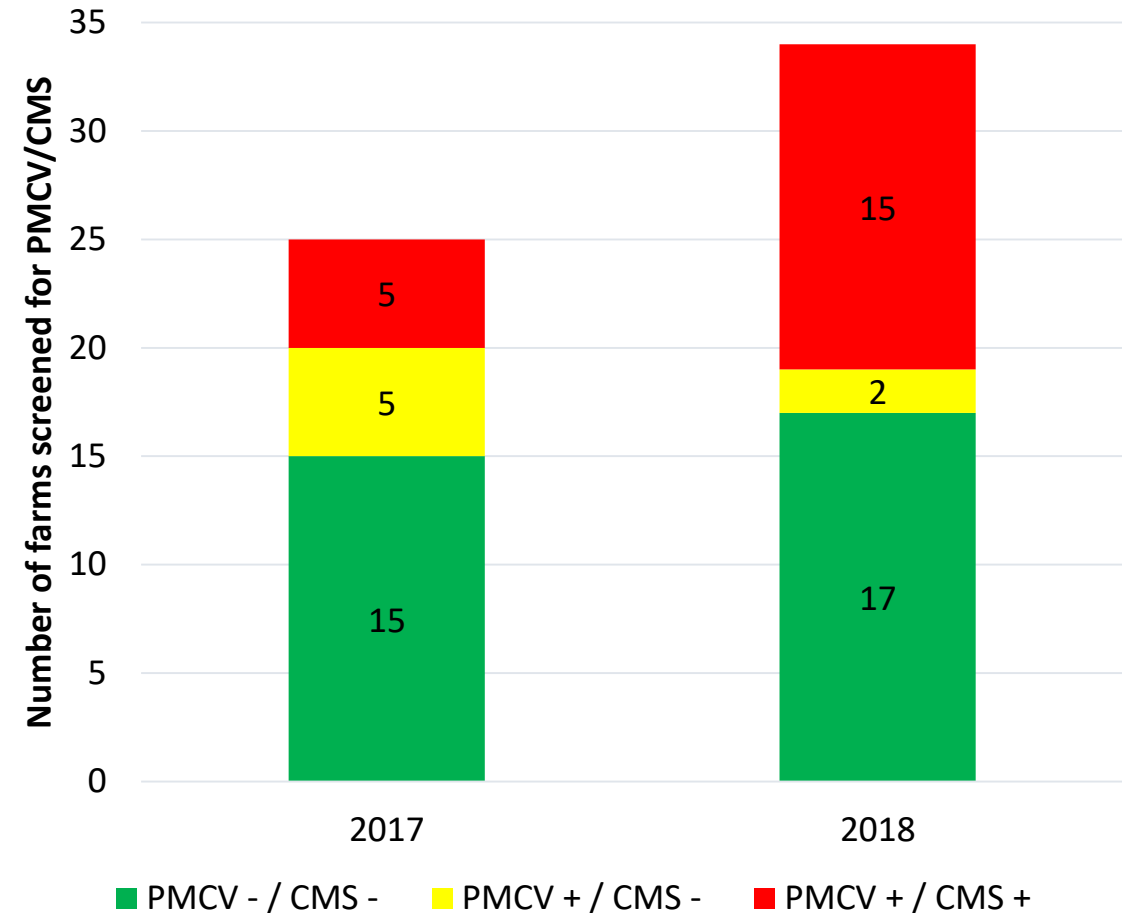
Petra E. Petersen, Lívfrøðingur

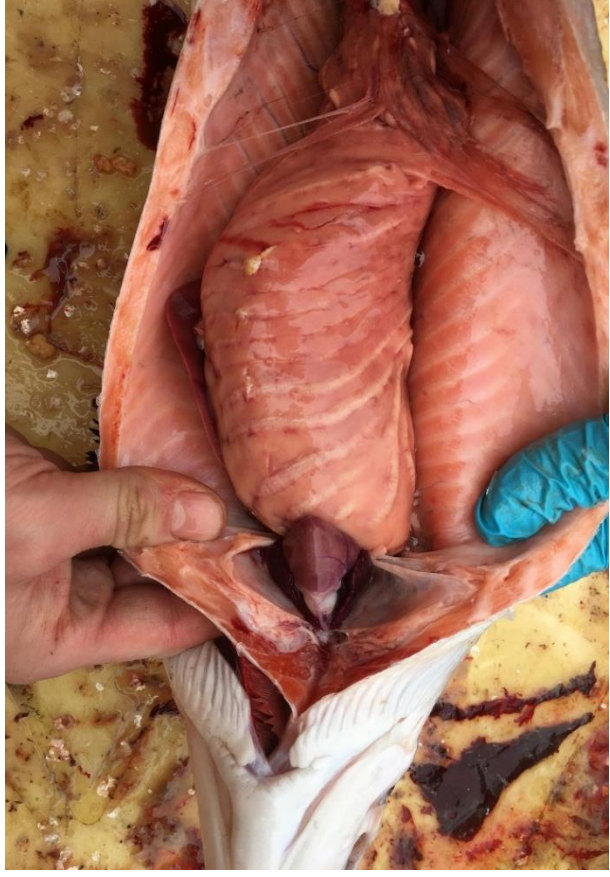
Tilvísingarkanningarstovan fyri fiska- og djórasjúkur

Heilsufrøðiliga Starvsstovan

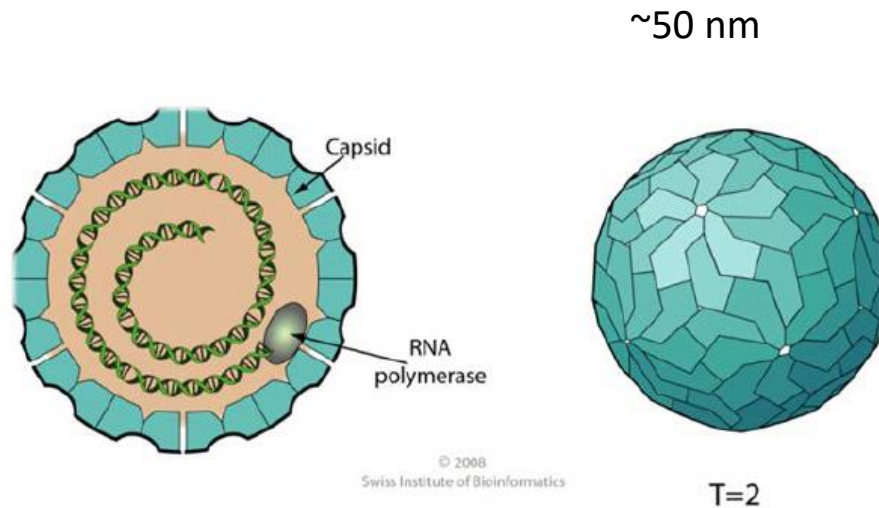
Hjartaklovningur / Cardyomyopathy Syndrome (CMS)

1. *Piscine myocarditis virus* (PMCV) - Føroyskt isolat genomsekventerað
2. Hjartaklovningur og Optilicer viðgerð
3. Møguligar smittuleiðir



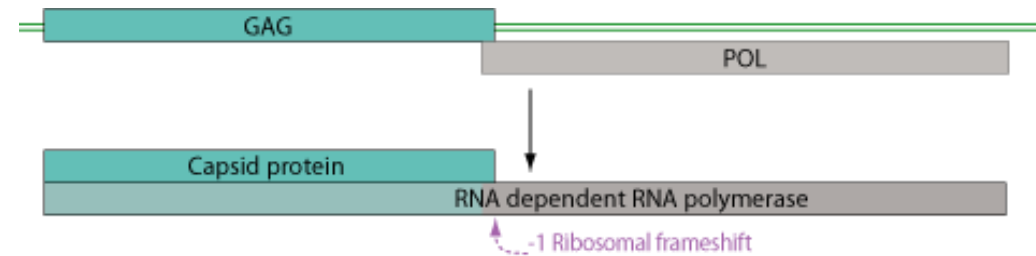


Piscine myocarditis virus (PMCV)



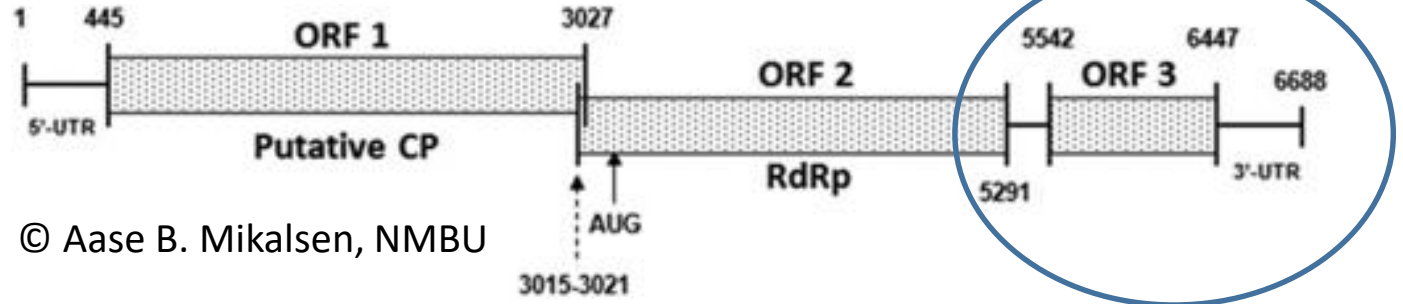
Totiviridae

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PMCV:



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Ymiskir ORF3 variantar ymiskan virulens?

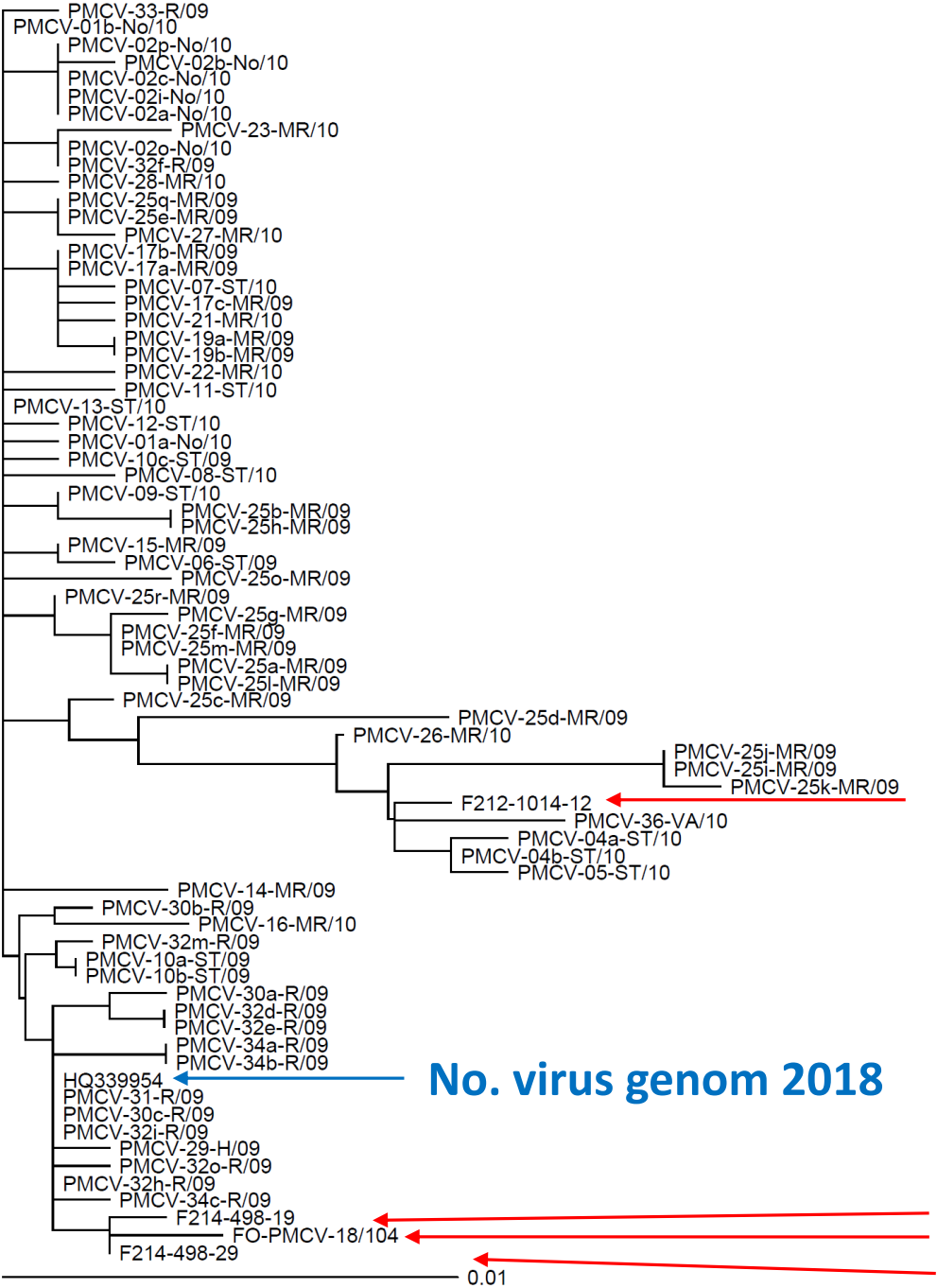
Faroese Food and Veterinary Authority



© Maria M. Dahl

> 99 % id viđđ PMCV AL V-708 (NO)

ORF3 - phylogeni

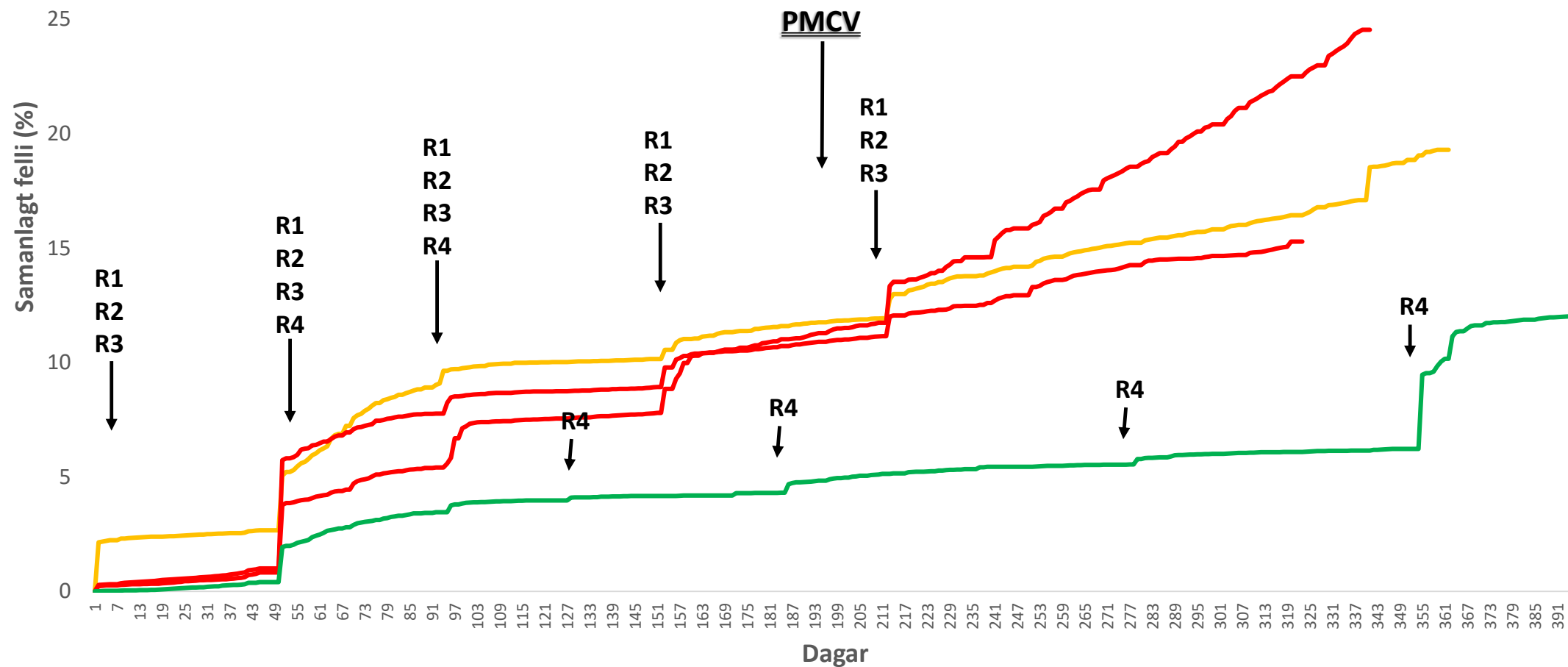


Villur laksur í Fø.

No. virus genom 2018

Fø. CMS 2014
Fø. virus genom 2018
Fø. CMS 2014

Optilicer og felli

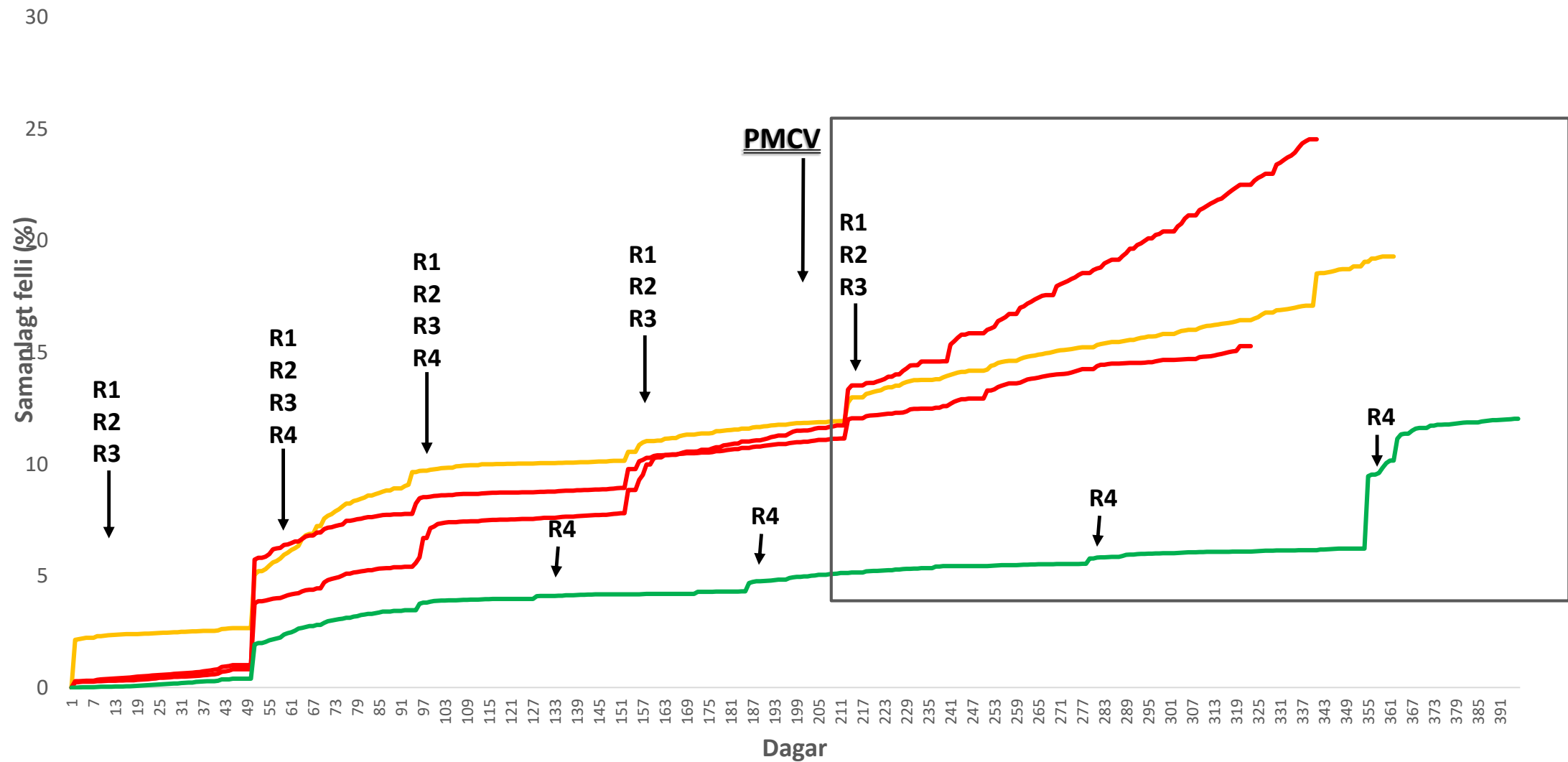


1.
Fáir fiskar við
CMS

2. Nógvir
fiskar CMS

3. Nógvir
fiskar CMS

4. Ikki CMS



1.
Fáir fiskar við
CMS

2. Nógvir
fiskar CMS

3. Nógvir
fiskar CMS

4. Ikki CMS

Optilicer viðgerð og CMS

1.
Fáir fiskar
við CMS

2. Nógvir
fiskar CMS

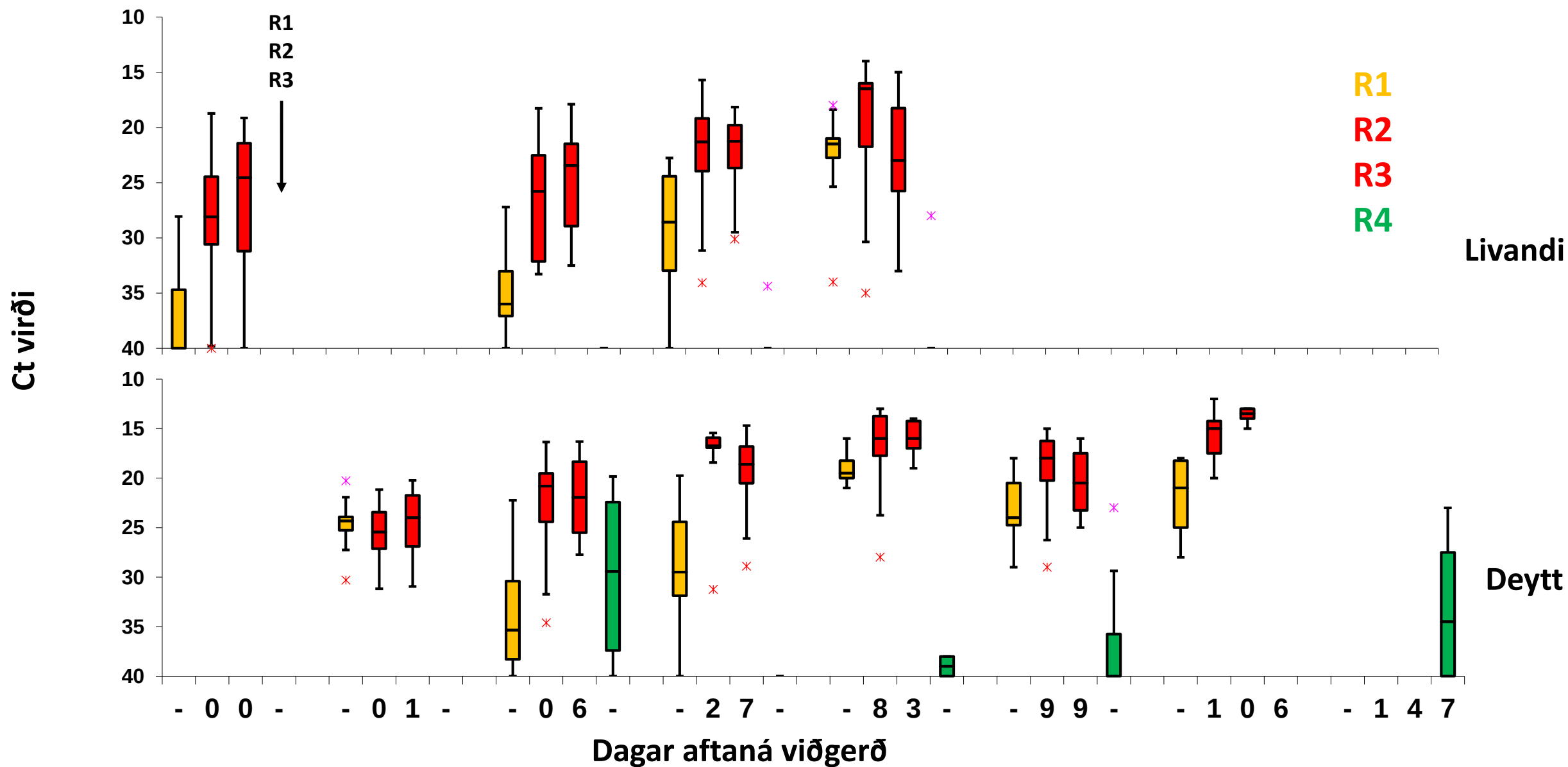
3. Nógvir
fiskar CMS

4. Ikki CMS

1 + 2 + 3 fylgdir tætt áðrenn og aftaná viðgerð:

- Dag 0 áðrenn viðgerð: 20 livandi fiskar /ring (1 + 2 + 3)
- Dag 1 aftaná viðgerð: 25 – 30 deyðar fiskar / ring (1 + 2 + 3)
- Dag 6 & 28 & 83: 10 livandi + 10 deyðar fiskar / ring (1 + 2 + 3 + 4)
- Víðari fram til slátur: Deyðan fisk

Virus í livandi og deyðum fiski aftaná Optilicer



Smittuleiðir

1. Smittar horisontalt!
2. Sæð klinik í 100 g fiski
3. Vertikalt?
4. Reinsifiski?
5. Lús?
6. Rýmdur alifiskur?

Wiik-Nielsen et al. 2012:

Fertilized eggs (January 2011)		Hatchlings (February 2011)		Hatchlings (March 2011)	
PRV	PMCV	PRV	PMCV	PRV	PMCV
0/40	7/40	5/20	5/20	0/20	0/20
–	C _t 38	C _t 41	C _t 38	–	–



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Verkætlan 2019-2021:

Cardiomyopathy syndrome (CMS): An emerging risk factor for Faroese Atlantic salmon aquaculture

SpF Aquamed.fo

Andras Strøm

